

Earth Observation Satellite – RISAT 2B

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Source: Press Information Bureau and ISRO website

Key highlights about the satellite

- RISAT-2B is an indigenously developed Synthetic Aperture Radar (SAR) Imaging Satellite operating in the X-band.
- It was launched by **PSLV-C46**
- RISAT-2B is a radar imaging earth observation satellite weighing about 615 kg.
- **Can operate in different modes:** The highly agile satellite is capable of operating in different modes including Very High Resolution RADAR imaging modes of 1m x 0.5m resolution and 0.5m x 0.3m resolution
- In order to increase the number of imaging opportunities, the satellite is placed in an inclined orbit
- **Can be operated in all time:** As, RISAT-2B is a Radar Imaging satellite; it can be operated effectively during day / night / all weather conditions
- **Control of the satellite: ISRO Telemetry Tracking and Command Network (ISTRAC) at Bengaluru assumed control of the satellite.**

Significance:

- RISAT-2B is an advanced Earth Observation satellite with an advanced technology of 3.6m radial rib antenna
- The Satellite will be used for high resolution spot imaging of locations of interest.
- Apart from this, data from RISAT-2B will also be utilized for agriculture applications and disaster management support.
- Applications of X-Band SAR imagery include Hydrology,

Crops, Forestry, Geosciences and Cryosphere.

- During the time of exigencies, very high resolution, day/night/all-weather imaging capabilities of RISAT-2B could be utilized for Disaster Management Support

